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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/941,313	08/29/2001	Robert J. Burnham	10541-451	6595	
29074 VISTEON	7590 06/18/	2007	EXAMINER		
	C/O BRINKS HOFER GILSON & LIONE PO BOX 10395			GENACK, MATTHEW W	
CHICAGO, IL			ART UNIT	PAPER NUMBER	
			2617		
	•				
•			MAIL DATE	DELIVERY MODE	
			06/18/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	09/941,313	BURNHAM ET AL.		
Office Action Summary	Examiner	Art Unit		
	Matthew W. Genack	2617		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tim  iiii apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	L. lely filed the mailing date of this communication. D. (35 U.S.C. & 133).		
Status	•			
Responsive to communication(s) filed on <u>3 Apr</u> This action is <b>FINAL</b> . 2b) ☐ This      Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. ice except for formal matters, pro			
Disposition of Claims				
4)  Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5)  Claim(s) is/are allowed. 6)  Claim(s) 1-10 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/or	vn from consideration.			
Application Papers				
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original sheet and the origin	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
Attackmont/s				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite		

### **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 3-6, and 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brice *et. al.*, U.S. Patent Application Publication 2003/0012389, in view of Gietema *et. al.*, U.S. Patent No. 6,222,503.

Regarding Claims 1, 4, 6, and 9, Brice et. al. discloses an automobile audio system that comprises a transmitter, connected to one of a plurality of audio sources (such as a CD or audio cassette), and a plurality of receivers that receive audio signals broadcasted throughout the automobile by said transmitter (Abstract, [0012]-[0013], [0016], Fig. 1). The automobile may be a car ([0043]). It is inherent that a car comprises a passenger compartment as well as a lamp assembly affixed to the roof of said passenger compartment, said lamp assembly comprising a lens and housing as well as a light source connected to a power source. A pair of wireless headphones, comprising touch sensing input devices, is used to receive the wireless signals and convert said signals into sound ([0014], [0038], Fig. 3).

Brice et. al. does not expressly disclose the placement of transmitters in the lamps, said transmitters connectable to the audio source and adaptable to receive information, either analog or digital, from said audio source and to transmit signals

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containing said information, whereby the transmitter is separate from the light source.

Gietema *et. al.* discloses a system and method for concealing RF antenna systems in lamps, said RF antenna systems being used in cellular telephone networks (Abstract, Column 1 Lines 17-21, Column 4 Lines 28-44, Column 10 Lines 18-34, Figs. 1B and 2). Such antennas will receive audio information from audio sources (*e.g.*, the cellular telephone network components located outside of the lamp) and transmit them through the lens of their respective lamp. The cellular telephone network may be digital, in which case, the audio source (a user's cellular telephone) contains an A/D converter (Column 10 Lines 3-17 and 35-58).

At the time that the invention was made, it would have been obvious to one of ordinary skill in the art to modify the invention of Brice et. al. by placing RF transmitters in the lamp assembly, said transmitters connected to the audio source and adaptable to receive information, either analog or digital, from said audio source and to transmit signals containing said information.

One would have been motivated to make this modification because the concealment of antennas may be considered to be aesthetically desirable (Gietema et. al.: Abstract, Column 1 Lines 17-38, Column 4 Lines 18-24, Column 6 Lines 54-65).

Regarding Claims 3 and 8, the transmitter may modulate the audio information on a carrier in the infrared region of the spectrum ([0046]).

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Regarding Claims 5 and 10, the audio sources are connected to the transmitter via wires ([0017], Fig. 1).

3. Claims 2 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brice *et. al.* in view of Gietema *et. al.*, further in view of Leeb, U.S. Patent No. 6,426,599.

Neither Brice et. al. nor Gietema et. al. expressly discloses the use of LED transmitters and infrared transmitters.

Leeb discloses a dual-use electronic transceiver for wireless data networks, whereby information is transmitted by modulating the AC input waveform to a lamp, and said information is detected by a receiver adapted to detect the variations, imperceptible to the human eye, of the light emitted from the lamp (Abstract, Column 1 Lines 22-31, Column 3 Lines 35-64, Figs. 1, 7, and 10). Audio information, either analog or digital, may be sent to the transceiver from sources such as tape recorders, microphones, and stereos (Column 1 Lines 31-35, Column 8 Lines 49-56, Fig. 1). The lamp may also emit electromagnetic radiation in the infrared portion of the spectrum, and a light emitting diode may be used as the lamp (Column 3 Line 65 to Column 4 Line 9).

At the time that the invention was made, it would have been obvious to one of ordinary skill in the art to modify the invention of Brice et. al. as modified by Gietema et. al. by providing for the use of lamps containing LED and infrared light sources.

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One of ordinary skill in the art would have been motivated to make this modification in order to expand the range of lamps that may be used to conceal RF transmitters.

## Response to Arguments

4. Applicant's arguments filed 3 April 2007 have been fully considered but they are not persuasive.

Applicant asserts, on Page 5 of Remarks, that "A careful read Gietema will reveal that Gietema discloses the concealment an antenna within a pole or shaft, not a lamp chamber." On the contrary, Gietema *et. al.* states "Densely and widely dispersed, antenna repeaters or picocells that <u>are concealed within utility poles or street lamps</u> throughout suburban areas provide better coverage, reduced shadowing and other benefits as previously described. [emphasis added]"

#### Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew W. Genack whose telephone number is 571-272-7541. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duc Nguyen can be reached on 571-272-7503. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Matthew Genack

Examiner

TC-2600, Division 2617

30 May 2007

DUC M. NGUYEN SUPERVISORY PRIMARY EXAMINER TECHNOLOGY CENTER 2600